



DATE: March 13, 1991

TO: David Ullrich, Director, Waste Management Div.

FROM: *LF* Louise Fabinski, Regional Representative - ATSDR

SUBJECT: Multistate Lead Exposure Study - Funding for
Environmental Sampling

I have attached a copy of the draft protocol for the Multistate Lead Exposure Study which has been funded by the Agency for Toxic Substances and Disease Registry. The Illinois, Kansas and Missouri state health departments will conduct the study. By combining and analyzing data from three comparable lead exposure studies the sample size will be larger and the statistical power should be enhanced. Previous ATSDR studies were limited in the conclusions which could be drawn because of their small sample size.

The major focus of each study is children ages 6 through 71 months. The study objectives are as follows:

1. To determine the dose measures of lead and cadmium in blood and urine in target populations and compare them with dose measures found in comparable populations.
2. To determine the level of environmental lead and cadmium contamination found in target areas and compare them with levels of contamination observed in comparable non-target areas.
3. To characterize the distribution of selected biomedical test values in target area populations and compare them with the distribution of biomedical test values observed in comparable area populations.
4. To compare the distribution of selected biomedical test values in target and comparable populations and compare them with standard reference ranges for these tests.
5. To determine the extent to which environmental, behavioral, occupational, and socio-economic factors influence exposure to lead and cadmium in target and non-target populations.

6. To determine the extent to which internal dose measurements of lead and cadmium in blood and urine are associated with the distribution of biomedical test values.
7. To determine the extent to which exposure has occurred in populations living in areas with both mining and industrial emissions compared to populations living in areas with industrial emissions only.

The Region V site selected for this study is the NL/Taracorp site located in Granite City, Illinois. In addition to the biological sampling which will be performed, the study will require additional environmental sampling. An estimate of the environmental sampling and analyses costs were provided to Brad Bradley, USEPA Project Manager for the NL/Taracorp site.

I would like to meet with the appropriate USEPA managers to discuss the possibility of your agency funding the environmental sampling and analyses required for the Region V portion of the study. A similar request is also under consideration in Region VII.

Since this study is scheduled for the Summer of 1991, I would like to request that we discuss this as soon as possible. If you have any questions, please call me at 353-8228. Thank you for your help.